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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/621,028	07/21/2000	Eric J. Bergman	255/236 P00-0036US2	4066
34055 7:	590 10/29/2003		EXAMINER	
PERKINS COIE LLP			EL ARINI, ZEINAB	
POST OFFICE BOX 1208 SEATTLE, WA 98111-1208			ART UNIT	PAPER NUMBER
,			1746	
			DATE MAILED: 10/29/2003	; }

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/621,028	BERGMAN, ERIC J.				
Office Action Summary	Examin r	Art Unit				
	Zeinab E. EL-Arini	1746				
Th MAILING DATE of this communication app ars on the cov r sheet with the correspond nce address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 15 S	<u>eptember 2003</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-14,17,19-21,23 and 26-34</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14,17,19-21,23 and 26-34</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) ☐ The oath or declaration is objected to by the Exa	iminer.	•				
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>24</u>	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/15/03 has been entered.

Claims 1-14,17,19-21, 23, and 26-27 are pending.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1, 3-14, and 31-32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 8, "the heated liquid" lacks antecedent basis.

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-14, 17, 19-21, 23 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li et al in combination with Bergman or Matsuoka.

This rejection stated in paper No. 13 is maintained.

6. Claims 26 and 28-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li et al in combination with Bergman or Matsuoka as applied to claims 1-14, 17, 19-21, 23 and 27 above, and further in view of Kashiwase et al. (5,378,317) or Wada et al. (JP 62-117330) or JP 4-125927 (JP'927) or JP 05-283389 (JP'389).

Li et al. in combination with Bergman or Matsuoka as discussed supra in paper No. 13 do not teach the temperature range as claimed.

Kashiwase et al. teach a method for removing organic film from a surface of a substrate. The reference teaches using a solution comprises ozone and water for processing said substrate. The reference teaches

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using the heated solution at a temperature from about 25- 100 C. See the abstract, col. 4, lines 37-59, col. 5, line 1- col. 6, line 11, and Examples 3, 5, and the claims.

Wada et al. teach a method of cleaning a substrate by using heated cleaning solution comprising HCL, HF, and ozone, and heating the solution to a temperature at 80-100 C. See the abstract.

JP'927 teaches a method of cleaning a substrate by using heated solution and ozone at a temperature up to 120 C. See the abstract.

JP' 398 teaches a method of cleaning a substrate by using heated solution comprises ozone and water at a temperature at 105 C. See the abstract.

It would have been obvious for one skilled in the art to use the temperature taught by Kashiwase et al. or JP'927 or Wada et al or JP'398 in the process taught by Li et al. in combination with Bergman or Matsuoka to obtain the claimed process. This is because using the ozone cause oxide decomposition to occur, and the high the temperature of the ozone cleaning solution, the greater the oxide decomposition effect from the ozone.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeinab E. EL-Arini whose telephone number is (703) 308-3320. The examiner can normally be reached on Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (703) 308-4333. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Zeinab E. EL-Arini Primary Examiner Art Unit 1746

ZEE 10/27/03